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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,573	08/29/2001	Jean-Marie Stawikowski	213288US6X	5002

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OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

ZHONG, CHAD

ART UNIT PAPER NUMBER

2152

DATE MAILED: 06/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/940,573

Applicant(s)

STAWIKOWSKI, JEAN-MARIE

Examiner

Chad Zhong

Art Unit

2152

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 February 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25-53 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 25-53 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

FINAL ACTION

1. This action is responsive to communications: Amendment, filed on 11/10/2004. This action has been made final.

Claims 25-53 are presented for examination. In amendment B, filed on 11/10/2004:

Claims 1-24 are cancelled.

Claims 25-53 are newly added

2. It is noted that although the present application does contain line numbers in specification and claims, the line numbers in the claims do not correspond to the preferred format. The preferred format is to number each line of every claim, with each claim beginning with line 1. For ease of reference by both the Examiner and Applicant all future correspondence should include the recommended line numbering.

3. Applicant is required to update the status (pending, allowed, etc.) of all parent priority applications in the first line of the specification. The status of all citations of US filed applications in the specification should also be updated where appropriate.

4. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Applicant's remarks filed 11/10/2004 have been considered but are found not persuasive in of the new ground(s) of rejection necessitated by Applicant's amendment.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

Art Unit: 2152

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Specifically, Applicant is required to add titles to each of the subsections as stated in the above sample.

The specification is objected to because of the following: current US patent policy does not permit the use of hyperlinks in the specification. Such links are directed to an Internet site, the contents of which are subject to change without notice. Therefore, the potential for inclusion of new matter would be a constant problem. See page 4, for example. Correction is required throughout the entire application.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See

Art Unit: 2152

In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 25-37, 39-41, 43-45, 48, 51 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6, 13-14, 16, 17 of copending Application No. 09/940,462. Although the conflicting claims are not identical, they are not patentably distinct from each other because the two co-pending applications are essentially the same other than SOAP vs WSDL limitation. The SOAP and WSDL are all XML extensions; it would have been an obvious modification to have used SOAP instead of WSDL in the Co-pending application.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Current Application: 09-940573	Co-Pending Application: 09-940462
25. a communication system including: automation equipment having at least one processing unit configured to execute at least one automation program and at least one web service, said automation program configured to provide an automation function and said web service configured to provide a remote access to the automation function; remote equipment configured to	1. a communication system on an IP network between an automation equipment comprising at least one processing unit capable of running a program to provide automation functions and one or more remote devices running a computer program or group of computer programs, characterised in that the communications system is based on the Simple Object Access Protocol (SOAP) for the purpose of providing the remote

Art Unit: 2152

<p>communicate with the automation equipment over an IP network</p> <p>a computer application configured to execute on the remote equipment and to communicate with the at least one web service to provide a remote automation function to the remote equipment, said remote automation function including at least one of monitoring, display, control, configuration, and programming of the automation function provided by the automation program on the automation</p> <p>equipment using the remote access of the web service; and</p> <p>said remote automation function being based on at least one service description document configured to describe capabilities of the at least one web service using a WSDL (Web Services Description Language) language.</p>	<p>device with supervision, display, control, configuration or programming functions of the automation equipment, and in that the communications system comprises, in the automation equipment, at least one WEB service or one WEB client which are capable of interacting with the program of the automation equipment of decoding messages received from the IP network encoded according to the SOAP protocol and of encoding according to the SOAP protocol messages to be sent on the IP network</p>
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Current application discloses WSDL language in place of SOAP description. In accordance to the Specification of the Applicant, SOAP and WSDL are all XML extensions, it would have been obvious to have made modification using WSDL instead of SOAP in this invention.

Current Application: 09-940573	Co-Pending Application: 09-940462
26. The communication system of claim 25, wherein the service description document is accessible to remote equipment through a URL, URL or IP address through an IP network interface.	2. a communication system according to claim 1, characterised in that an automation equipment includes at least one WEB service able to receive from the IP network requests, coming from at least one WEB client application contained in a remote device and of sending on the IP network responses to the WEB client application of the remote device.

Current Application: 09-940573	Co-Pending Application: 09-940462
27. the communication system of claim 26, wherein the at least one web service is configured to receive and send messages encoded according to at least one communication protocol that conforms to at least one WSDL binding described in the at	3. a communication system according to claim 1, characterised in that an automation equipment includes at least one WEB client able to send on the IP network requests to at least one WEB server application contained in a remote device and of receiving

Art Unit: 2152

least one service description document on the IP network.	from the IP network responses, coming from the WEB server application of the remote device.
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Current Application: 09-940573	Co-Pending Application: 09-940462
28. the communication system of claim 27, wherein the at least one WSDL binding described in the at least one service description document conforms to at least one of SOAP, HTTP and MIME protocol	See claim 1 above

Current Application: 09-940573	Co-Pending Application: 09-940462
29. the communication system of claim 28, wherein the at least one service description document includes a description of a capacity of the at least one web service according to at least one communication protocol of the automation equipment	4. a communication system according to claim 2, characterised in that a service description document describes the capacities of one or more WEB services implanted in an automation equipment, this service description document being accessible for a remote device either from its local resources, or from remote resources identified by a URL, URI or IP address

As per claim 30, refer to claim 1 for detailed explanation.

Current Application: 09-940573	Co-Pending Application: 09-940462
31. the communication system of claim 27, wherein the at least one WSDL binding described in the at least one service description document conforms to at least one version of the SOAP protocol encoded in a binary format	5. a communication system according to claim 4, characterised in that the service description document complies with a service description language referring to the SOAP protocol or to the HTTP, HTTPS protocol and providing a grammar based on the extensible Markup Language (XML)

Art Unit: 2152

Current Application: 09-940573	Co-Pending Application: 09-940462
32. the communication system of claim 25, wherein the remote equipment further comprises a remote local storage configured to memorize the at least one service description document	14. a communication system according to claim 11, characterised in that the service description document of an automation equipment is stored in storage means located in a remote device

Current Application: 09-940573	Co-Pending Application: 09-940462
33. the communication system of claim 26, wherein the automation equipment further comprises an automation equipment local storage configured to memorize the at least one service description document.	13. a communication system according to claim 11, characterised in that the service description document of an automation equipment is stored in storage means located in the automation equipment.

Current Application: 09-940573	Co-Pending Application: 09-940462
34. the communication system of claim 26, further comprising intermediate equipment operatively connected to the automation equipment and the remote equipment, said intermediate equipment including an intermediate local storage configured to memorize the at least one service description document	14. a communication system according to claim 11, characterised in that the service description document of an automation equipment is stored in storage means located in a remote device

Current Application: 09-940573	Co-Pending Application: 09-940462
35. the communication system of claim 26, further comprising a server operatively connected to the IP network and including a server local storage configured to memorize the at least one service description document	13. a communication system according to claim 11, characterised in that the service description document of an automation equipment is stored in storage means located in the automation equipment

Art Unit: 2152

Current Application: 09-940573	Co-Pending Application: 09-940462
36. the communication system of claim 26, further comprising a service description document generator configured to dynamically build the at least one service description document based on a request from the remote equipment and accessible to the remote equipment through an URL, URI or IP address through the IP network interface	16. a communication system according to claim 15, characterised in that the generator of a service description document of an automation equipment is accessible, for a remote device, via a URL, URI or IP address

Current Application: 09-940573	Co-Pending Application: 09-940462
37. the communication system of claim 27, wherein the at least one web service is configured to interact with the automation program in the automation equipment and is installed in the automation equipment	13. a communication system according to claim 11, characterised in that the service description document of an automation equipment is stored in storage means located in the automation equipment

Current Application: 09-940573	Co-Pending Application: 09-940462
39. the communication system of claim 28, wherein the at least one web service is configured to receive and send requests encoded according to at least one protocol of the automation equipment	See claim 1 above

Current Application: 09-940573	Co-Pending Application: 09-940462
40. the communication system of claim 26, wherein the remote equipment is configured to access a discovery document for the at least one service description document through an URL, URI or IP address	6. a communication system according to claim 5, characterised in that the service description document may contain one or more URL, URI or IP addresses of one or more WEB services

Current Application: 09-940573	Co-Pending Application: 09-940462
41. the communication system of claim 40, wherein the discovery document for the service description document is represented by at least one web page that conforms to at least one web page description language, and the discovery document includes at least one list of URL URI or IP addresses for the at least one service description document.	4. a communication system according to claim 2, characterised in that a service description document describes the capacities of one or more WEB services implanted in an automation equipment, this service description document being accessible for a remote device either from its local resources, or from remote resources identified by a URL, URI or IP address

Current Application: 09-940573	Co-Pending Application: 09-940462
43. the communication system of claim 40, wherein the automation equipment further comprises a storage device configured to memorize the discovery document for the at least one service description document	13. a communication system according to claim 11, characterised in that the service description document of an automation equipment is stored in storage means located in the automation equipment

As per claim 44-45, claims 44-45 are rejected for the same reasons as rejection to claims 34-35 above respectively.

As per claim 48, claim 48 is rejected for the same reasons as rejection to claim 25 above.

Current Application: 09-940573	Co-Pending Application: 09-940462
51. the method of claim 49, wherein the generating further comprises generating at least part of the computer application using a code generator executing on at least one of the remote equipment and a second remote equipment operatively connected to the automation equipment and the remote equipment by the IP network	17. a communication system according to claim 16, characterised in that the generator of a service description document of an automation equipment is stored in storage means located in the automation equipment or in storage means located in a remote device

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 25-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Linderman, US 2002/0032790, in view of Applicant Admitted Prior Art (hereinafter AAPA).

7. As per claim 25, Linderman a communication system including:

automation equipment ([0013], wherein the automation equipment is for example, the server) having at least one processing unit configured to execute at least one automation program ([0013], [0026], wherein the server has programs controllable by the remote devices) and at least one web service, said automation program configured to provide an automation function and said web service configured to provide a remote access to the automation function;

remote equipment configured to communicate with the automation equipment over an IP network ([0013]);

a computer application configured to execute on the remote equipment and to communicate with the at least one web service to provide a remote automation function to the remote equipment, said remote automation function including at least one of monitoring, display, control, configuration, and programming of the automation function provided by the automation program on the automation equipment using the remote access of the web service ([0049]; T-Box, Fig 1); and

said remote automation function being based on at least one service description document configured to describe capabilities of the at least one web service (wherein the description is being done in SOAP protocol)

8. However, Linderman does not explicitly teach:

using a WSDL (Web Services Description Language) language to describe web services.

AAPA teaches using a WSDL (Web Services Description Language) language to describe web services (see for example, specification, pg 4, lines 25-30; pg 5, lines 23-24; pg 6, lines 10-18, wherein SOAP and WSDL are compatibly conformed with each other and complements as well as extend each other to give enhanced web services experience), in order to facilitate interoperability of WEB services, further, with WSDL, applications that use the SOAP protocol are capable of automating exchanges between WEB services, while concealing most low level technical details, see for example, pg 6, lines 10-18.

It would have been obvious to one of ordinary skill in this art at the time of invention was made to combine the teaching of Linderman and AAPA in order to facilitate interoperability of WEB services, further, with WSDL, applications that use the SOAP protocol are capable of automating exchanges between WEB services, while concealing most low level technical details

9. As per claim 26, Linderman teaches the communication system of claim 25, wherein the service description document is accessible to remote equipment through a URL, URL or IP address through an IP network interface ([0028-0030], [0040], [0049], wherein the user transmits service requests remotely to a server in order to carry out the request, the command comprises of node address or the IP address in the network).

10. As per claim 27, Linderman teaches the communication system of claim 26, wherein the at least one web service is configured to receive and send messages encoded according to at least one communication protocol that conforms to at least one WSDL binding described in the at least one service description document on the IP network ([0019], [0032], [0033], wherein encoding is done in XML/SOAP, which conforms with WSDL binding).

11. As per claim 28, Linderman teaches the communication system of claim 27, wherein the at least one WSDL binding described in the at least one service description document conforms to at least one of SOAP, HTTP and MIME protocol ([0019], [0032], [0033], wherein encoding is done in XML/SOAP, which conforms with WSDL binding).

12. As per claim 29, Linderman teaches the communication system of claim 28, wherein the at least one service description document includes a description of a capacity of the at least one web service according to at least one communication protocol of the automation equipment ([0028-0030], [0040], [0049], wherein the user transmits service requests remotely to a server in order to carry out the request, one exemplary embodiment would be capacity controlling of the remote automation equipment, the capacity information are carried in the messages in order to control remote capacity, the indication of the availability of capacity is inherently taught here).

13. As per claim 30, Linderman teaches the communication system of claim 27, wherein the at least one WSDL binding described in the at least one service description document conforms to at least one communication protocol of the automation equipment ([0019], [0032], [0033], wherein encoding is done in XML/SOAP, which conforms with WSDL binding).

14. As per claim 31, Linderman teaches the communication system of claim 27, wherein the at least one WSDL binding described in the at least one service description document conforms to at least one version of the SOAP protocol encoded in a binary format ([0019], [0032], [0033], wherein encoding is done in XML/SOAP, which conforms with WSDL binding).

15. As per claim 32, Linderman teaches the communication system of claim 25, wherein the remote equipment further comprises a remote local storage configured to memorize the at least one service

description document ([0034]; [0045]; further, note that commands are within memory of a system at one point or another prior to execution by the processor).

16. As per claim 33, Linderman teaches the communication system of claim 26, wherein the automation equipment further comprises an automation equipment local storage configured to memorize the at least one service description document ([0034]; [0045]; further, note that commands are within memory of a system at one point or another prior to execution by the processor).

17. As per claim 34, Linderman teaches the communication system of claim 26, further comprising intermediate equipment operatively connected to the automation equipment and the remote equipment, said intermediate equipment including an intermediate local storage configured to memorize the at least one service description document ([0040]; [0045]).

18. As per claim 35, Linderman teaches the communication system of claim 26, further comprising a server operatively connected to the IP network and including a server local storage configured to memorize the at least one service description document ([0032]).

19. As per claim 36, Linderman teaches the communication system of claim 26, further comprising a service description document generator configured to dynamically build the at least one service description document based on a request from the remote equipment and accessible to the remote equipment through an URL, URI or IP address through the IP network interface ([0032], the service description document is generated at the server and routed to proper remote service equipment).

20. As per claim 37, Linderman teaches the communication system of claim 27, wherein the at least one web service is configured to interact with the automation program in the automation equipment and is installed in the automation equipment ([0040], [0043], [0049], wherein the remote services is running on

the automation equipment, i.e. bandwidth capacity allocation service, the remote equipment is capable of interactions with the automation equipment).

21. As per claim 38, Linderman the communication system of claim 27, further comprising intermediate equipment operatively connected to the automation equipment and the remote equipment ([0040]; [0045]), said intermediate equipment including at least one web service configured to interact with the automation program in the automation equipment ([0032], further interaction between the intermediary server and the automation equipment).

22. As per claim 39, Linderman teaches the communication system of claim 28, wherein the at least one web service is configured to receive and send requests encoded according to at least one protocol of the automation equipment ([0032]).

23. As per claim 40, Linderman teaches the communication system of claim 26, wherein the remote equipment is configured to access a discovery document for the at least one service description document through an URL, URI or IP address ([0028-0030], [0040], [0049], wherein the user transmits service requests remotely to a server in order to carry out the request, the command comprises of node address or the IP address in the network).

24. As per claim 41, Linderman teaches the communication system of claim 40, wherein the discovery document for the service description document is represented by at least one web page that conforms to at least one web page description language (wherein SOAP/XML is a description language), and the discovery document includes at least one list of URL URI or IP addresses for the at least one service description document. ([0028-0030], [0040], [0049], wherein the user transmits service requests remotely to a server in order to carry out the request, the command comprises of node address or the IP address in the network).

25. As per claim 42, Linderman does not explicitly teach the communication system of claim 40, wherein a format of the discovery document of the at least one service description document conforms to at least one of ADS (Advertisement and Discovery Services), DISCO (Discovery), and UDDI (Universal Description, Discovery and Integration) specifications.

AAPA teaches WSDL language conforms to UDDI specifications (see for example, specification, pg 6, lines 19-23), in order to complement the universal directory that stores document references describing the capabilities of WEB services

It would have been obvious to one of ordinary skill in this art at the time of invention was made to combine the teaching of Linderman and AAPA in order to complement the universal directory that stores document references describing the capabilities of WEB services.

26. As per claim 43, Linderman teaches the communication system of claim 40, wherein the automation equipment further comprises a storage device configured to memorize the discovery document for the at least one service description document ([0032]; [0040]; [0045]).

27. As per claim 44-45, claims 44-45 are rejected for the same reasons as rejection to claims 34-35 above respectively.

28. As per claim 46, Linderman teaches the communication system of claim 25, wherein the automation equipment includes at least one of a programmable logic controller, a numeric controller, an instrumentation station, and a control station ([0049], wherein the bandwidth can be controlled remotely and dynamically, thus the control aspect is inherently present).

29. As per claim 47, Linderman teaches the communication system of claim 25, wherein the automation function includes at least one of an industrial control function, a building automation

equipment function, an instrumentation for electrical distribution networks function, and a control for electrical distribution networks function (see for example, [0049], wherein the bandwidth can be controlled remotely and dynamically, thus the control aspect is inherently present).

30. As per claim 48, claim 48 is rejected for the same reasons as rejection to claim 25 above.

31. As per claim 49, Linderman teaches the method of claim 48, further comprising steps of:

sending a request on the IP network from at least one of the computer application and a development application executing on the remote equipment to receive the at least one service description document ([0028-0032]);

generating at least a part of the computer application based on the at least one service description document using a code generator ([0032]); and

transmitting messages between the computer application and the at least one web service according to a capability of the at least one web service described in the at least one service description document ([0049], [0045], wherein capacity is one example of the services that can be adjusted through out the SOAP/XML/WSDL scheme).

32. As per claim 50, Linderman teaches the method of claim 49, wherein the sending a request further comprises using at least one discovery documents to receive the at least one service description document ([0018-0019], wherein XML is a service description document).

33. As per claim 51, Linderman teaches the method of claim 49, wherein the generating further comprises generating at least part of the computer application using a code generator executing on at least one of the remote equipment and a second remote equipment operatively connected to the automation equipment and the remote equipment by the IP network ([0032]).

34. As per claim 52, Linderman teaches the method of claim 48, wherein the automation equipment includes at least one of a programmable logic controller, a numeric controller, an instrumentation station, and a control station ([0049]).

35. As per claim 53, Linderman teaches the method of claim 48, wherein the automation function includes at least one of an industrial control function, a building automation equipment function, an instrumentation for electrical distribution networks function, and a control for electrical distribution networks function ([0049]).

Conclusion

36. **THIS ACTION IS MADE FINAL.** Applicant is reined of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

38. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents and publications are cited to further show the state of the art with respect to "Communication System For Automation Equipment Based On The WSDL Language".

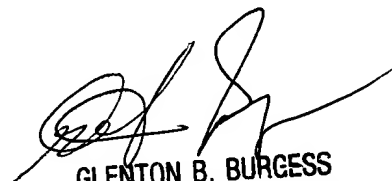
- i. US 6,282,454 Papadopoulos

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chad Zhong whose telephone number is (571)272-3946. The examiner can normally be reached on M-F 7:15 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BURGESS, GLENTON B can be reached on (571)272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CZ
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GLENTON B. BURGESS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100